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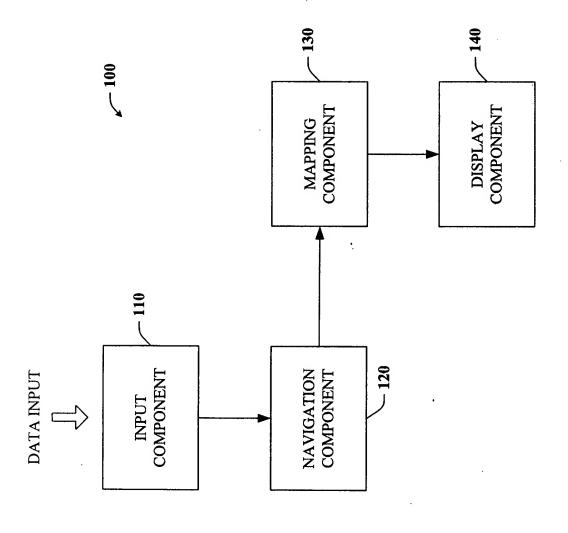


FIG. 1

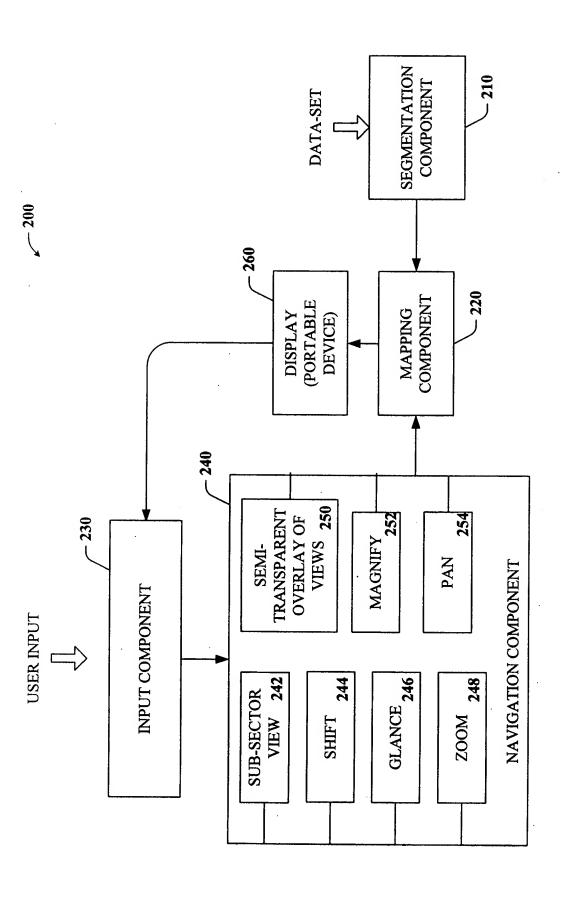
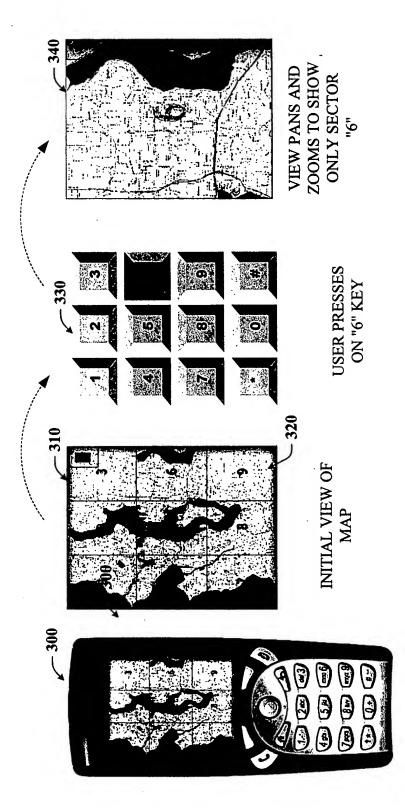
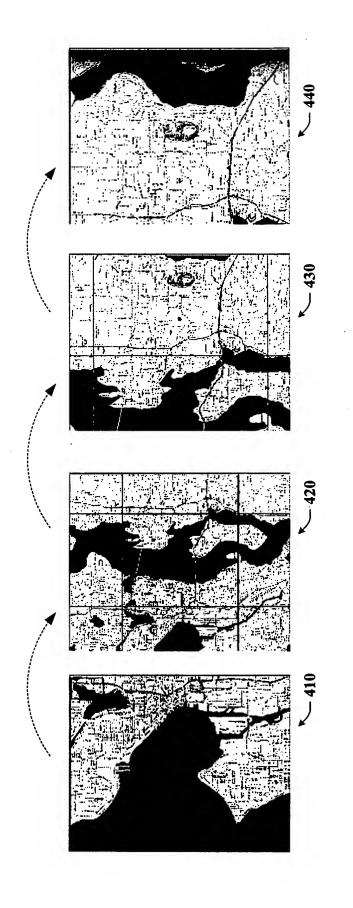


FIG. 2



EXEMPLARY PORTABLE
DEVICE WITH KEYPAD - USING
SUBJECT NAVIGATION
SYSTEM

FIG. 3



VIEW ZOOMS OUT DURING PAN FROM ONE SIBLING VIEW (SECTOR 4) TO ANOTHER (SECTOR 6)

FIG. 4

SEGMENTED TO VIEW AVAILABLE SECTORS

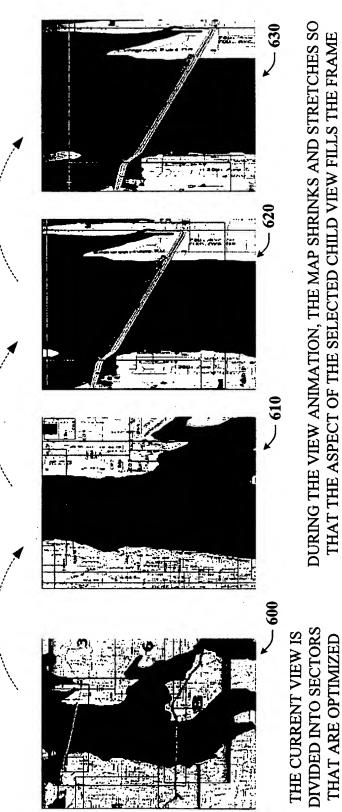


FIG. 6

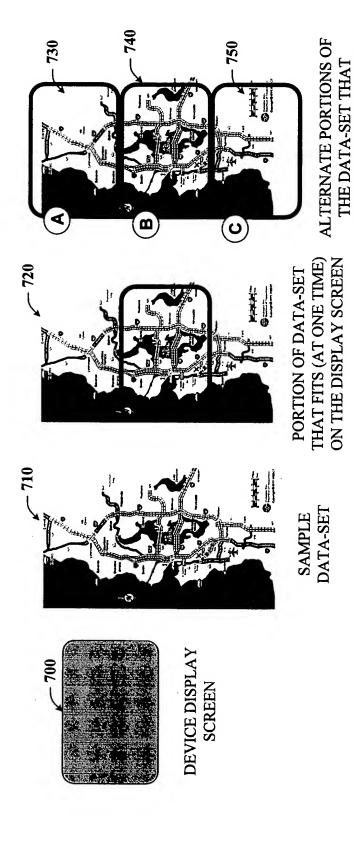
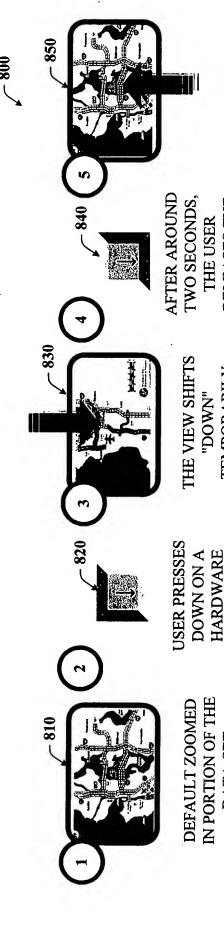


FIG. 7

CAN BE AVAILABLE FOR VIEWING

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER PRESSES-AND-HOLDS A BUTTON THAT IS ASSIGNED TO A PARTICULAR VIEW



THE VIEW RETURNS **TAPPING A BUTTON** AND-RELEASING A CAN BE HELD FOR OR LONG ENOUGH COMMENSURATE **BETWEEN A USER** TO DISTINGUISH (NOTE: BUTTON RELEASES THE AND HOLDING-A TIME SPAN BUTTON **BUTTON**) TEMPORARILY

CONFIGURATION

"UP" TO THE ORIGINAL

CORRESPONDS

PREDEFINED

TO A

VIEW SHIFT

BUTTON THAT

DATA-SET

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON THAT IS ASSIGNED TO A PARTICULAR VIEW







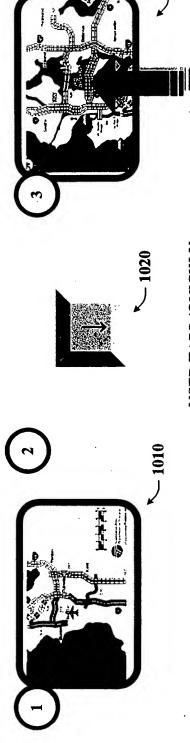
THE VIEW SHIFTS
"DOWN" TO THE NEW
CONFIGURATION

DEFAULT ZOOMED IN PORTION OF THE DATA-SET

USER TAPS (QUICKLY PRESSES AND RELEASES) A HARDWARE BUTTON THAT CORRESPONDS TO A PRE-DEFINED VIEW

FIG. 9

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON AFTER VIEW HAS ALREADY SHIFTED -TO TOGGLE THE VIEW



THE VIEW IS ALREADY SHIFTED AWAY FROM AN ORIGINAL FOCUS OF INTEREST

USER TAPS (QUICKLY PRESSES AND RELEASES) A HARDWARE BUTTON THAT CORRESPONDS TO A PRE-DEFINED VIEW

THE VIEW SHIFTS BACK "UP" TO THE ORIGINAL FOCUS OF INTEREST

FIG. 10

SIMPLE SEGMENTATION OF THE MOST ZOOMED OUT VIEW OF A DATA-SET

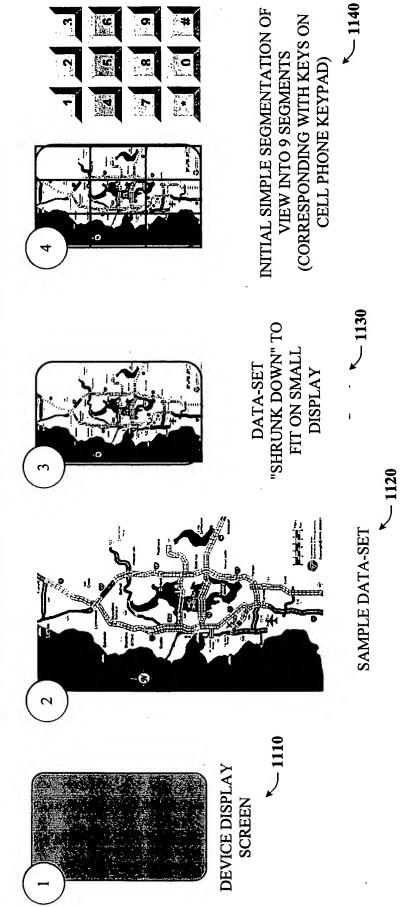
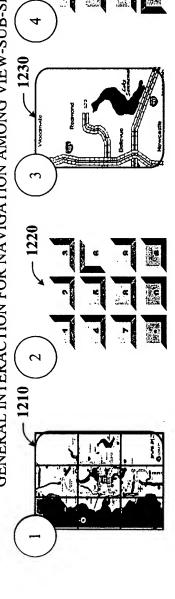
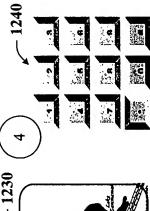


FIG. 11





1250

SEGMENTATION OF INITIAL

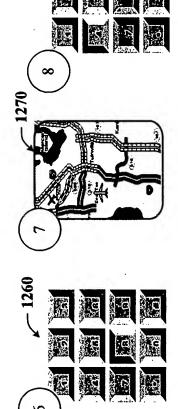
KEY ON KEYPAD OF PORTABLE DEVICE USER TAPS ON "6"

VIEW ZOOMS IN SEGMENT THAT CORRESPONDS TO JUST SHOW VIEW-SUB-TO KEY "6"

BACK OUT TO THE THE VIEW ZOOMS INITIAL VIEW

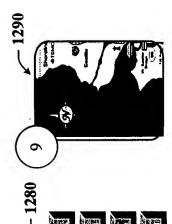
USER TAPS ON "*" **KEY WHICH IS**

"ZOOM-OUT" MAPPED TO



VIEW ZOOMS IN TO JUST SEGMENT "8"

USER TAPS ON "8"



LEVEL BUT SHIFTS TO SHOW SEGMENT "4" **CURRENT ZOOM** VIEW STAYS AT

USER TAPS ON "4"

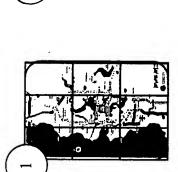
KEY



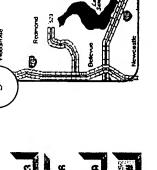
4

~

1300



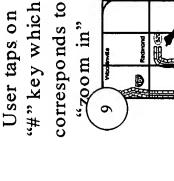
segmentation of view Initial



into segment View zooms

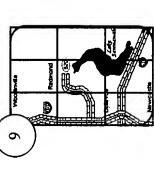
User taps on

"6" key

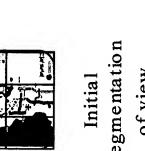


segments

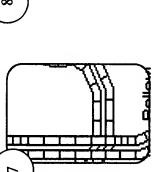
Current view is segmented into 9 sub-



zooms back The view



User taps on "4" key



into new subsegment "4" View zooms

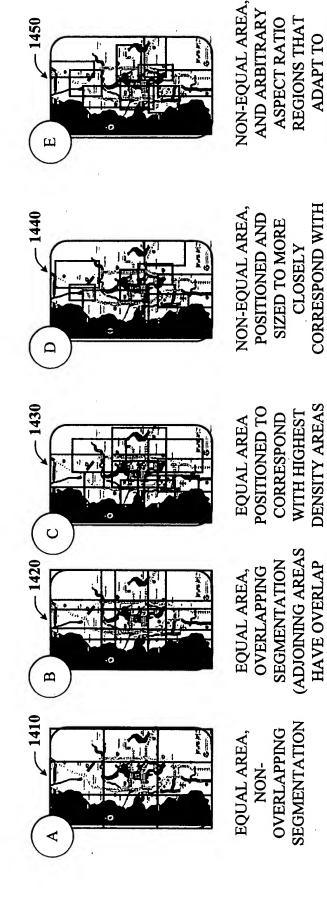


out one level

is mapped to

"zoom-out"

DIFFERENT TYPES OF SEGMENTATION



UNDERLYING DATA

AND USAGE

AREAS OF DATA-SET

HIGHEST DENSITY

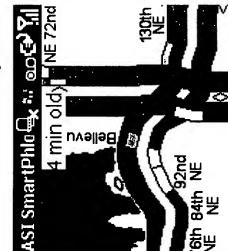
OF DATA-SET

WHEN ZOOMED IN)

FIG. 14

1510

100 :: X



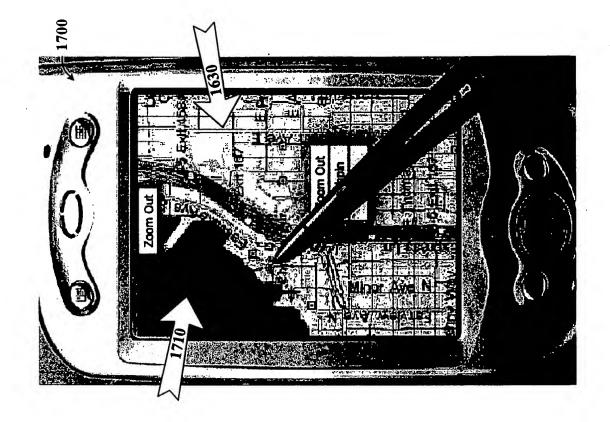


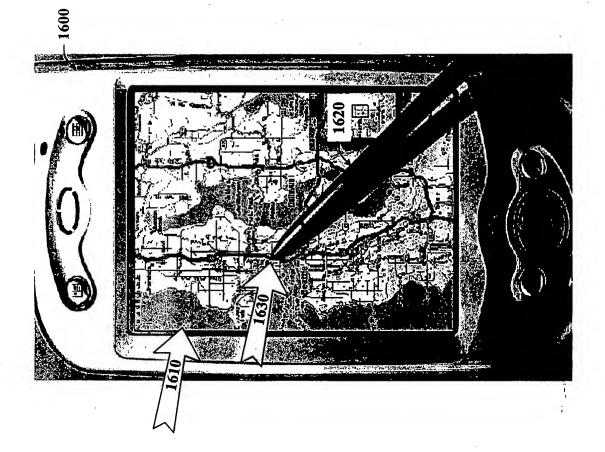


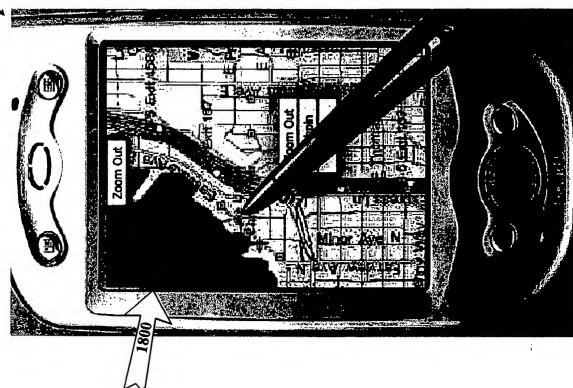
TWO DIFFERENT VIEW SECTORS (AT THE SAME ZOOM LEVEL)

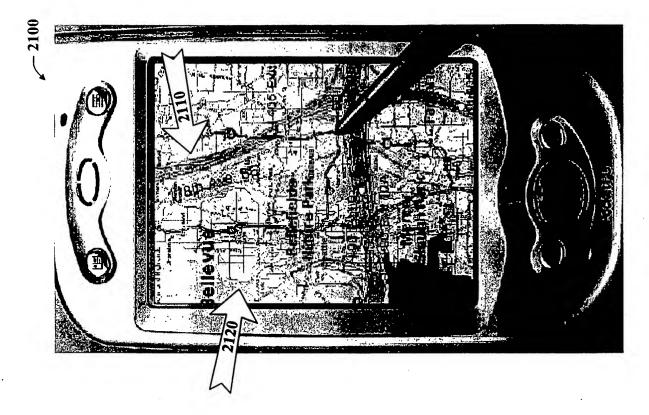
ZOOMED OUT VIEW OF THE

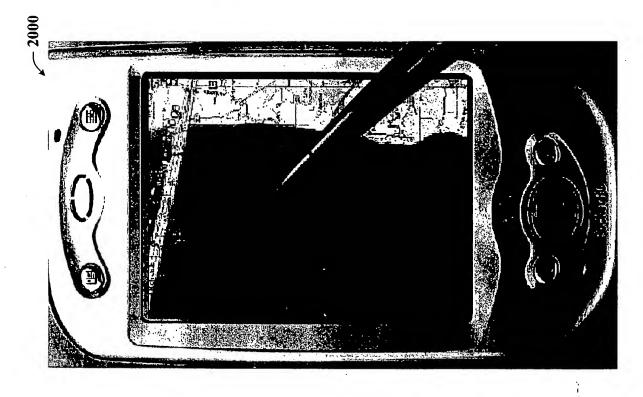
TRAFFIC MAP

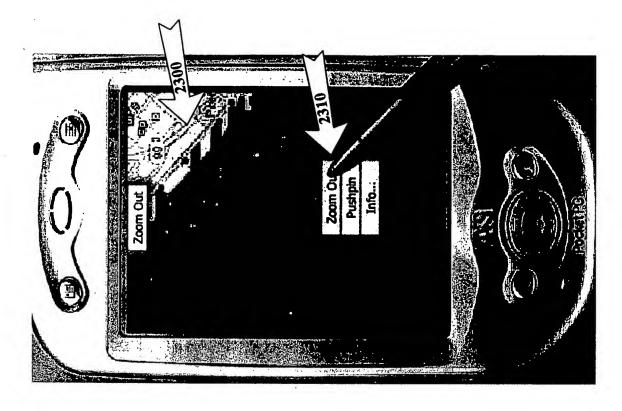


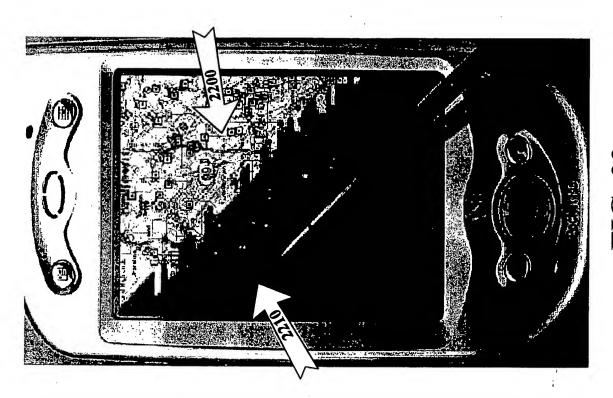












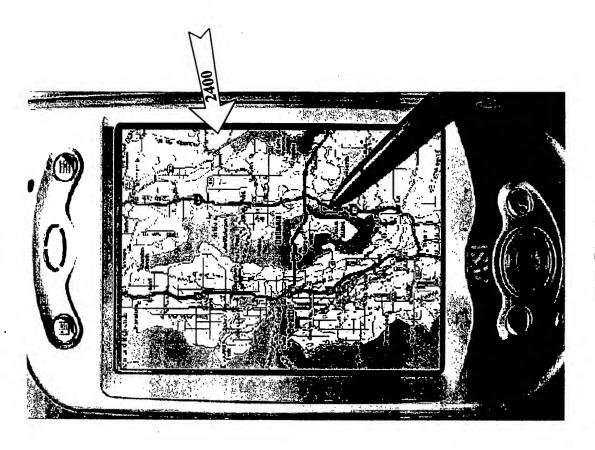


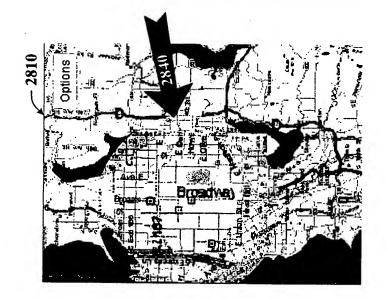
FIG. 25

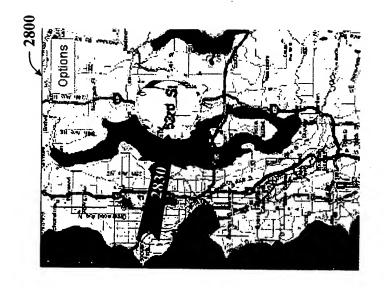
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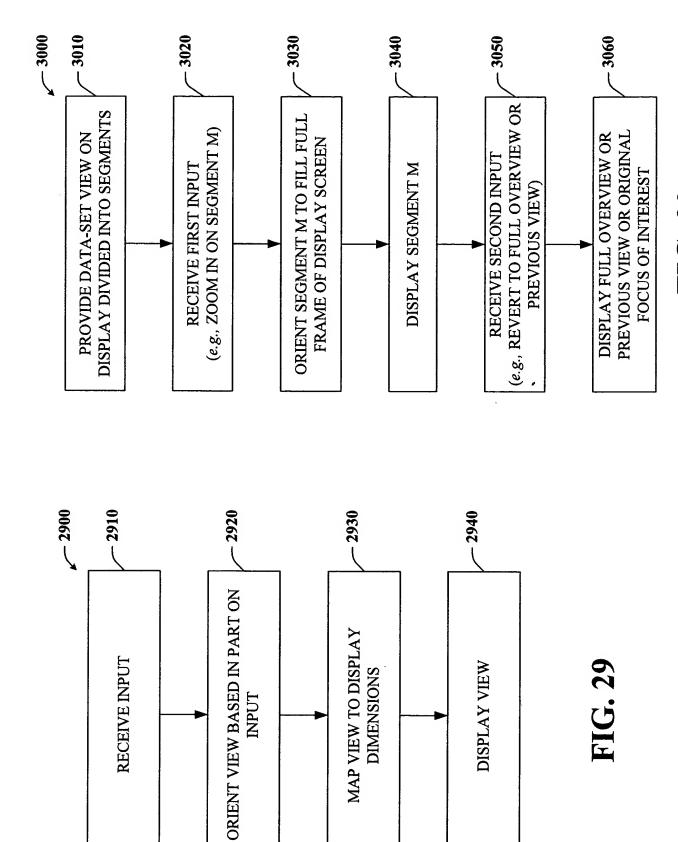
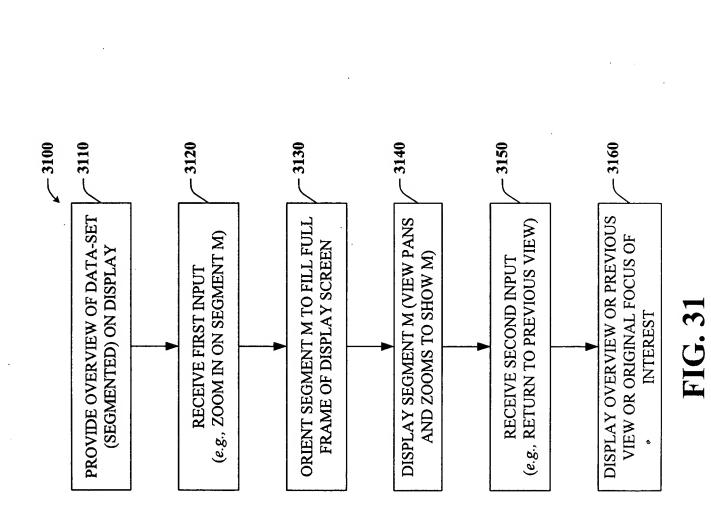


FIG. 30



3200

3210

VIEW ZOOMED IN PORTION OF

CONTENT (DATA-SET)

3220

PRESS DOWN AND HOLD BUTTON

THAT CORRESPONDS TO A PRE-

DEFINED VIEW SHIFT

SHIFT VIEW BASED ON PRE-

DEFINED VIEW SHIFT

TEMPORARILY

FIG. 32

RETURN VIEW TO THE PREVIOUS

CONFIGURATION

RELEASE BUTTON AFTER SOME

TIME (e.g., 2 SECONDS)

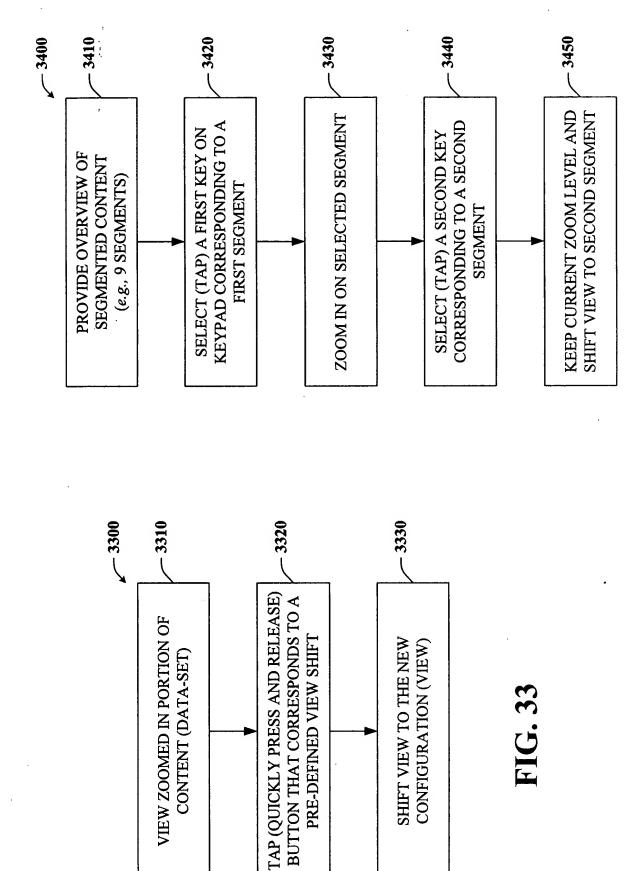


FIG. 34

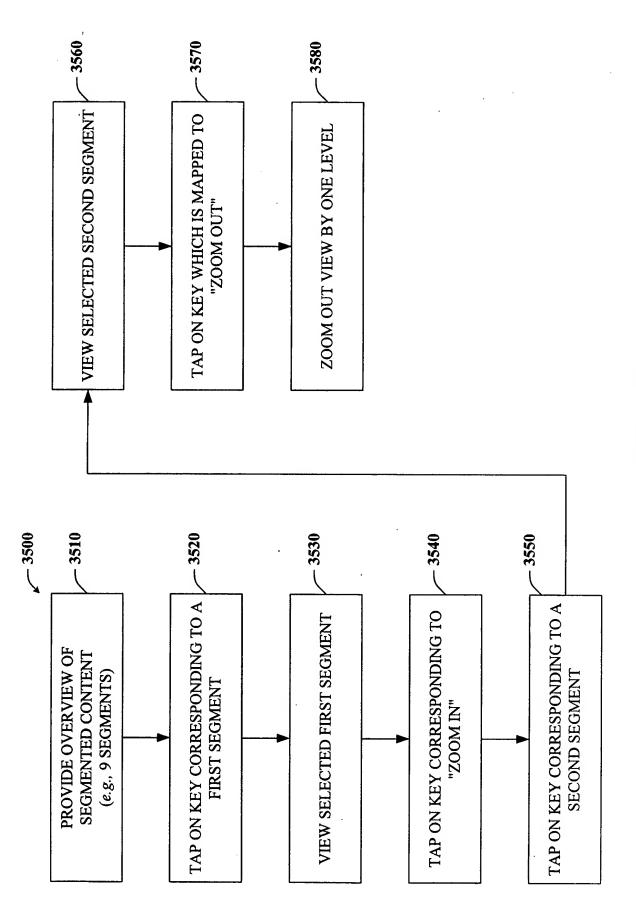


FIG. 35

USE POINTING DEVICE TO NAVIGATE THROUGH CONTENT:

- DRAG POINTING DEVICE OVER CONTENT SLOWLY WHEN ZOOMING TO GENERATE SEMITRANSPARENT OVERLAY OF OVERVIEW OVER THE ZOOMED IN CONTENT
 - PRESS POINTING DEVICE ON

3620

- SCREEN TO ZOOM IN
 MOVING POINTING DEVICE FASTER LESSENS DETAIL OF VIEW
- MOVING POINTING DEVICE SLOWER OVER CONTENT YIELDS VIEWING MORE DETAIL OF THE CONTENT
- USE PREDEFINED BUTTONS AND/
 OR POP-UP MENUS ON DISPLAY
 TO ZOOM OUT, PLACE A
 PUSHPIN, AND/OR OBTAIN MORE
 INFO ABOUT THE ZOOMED IN

FIG. 36

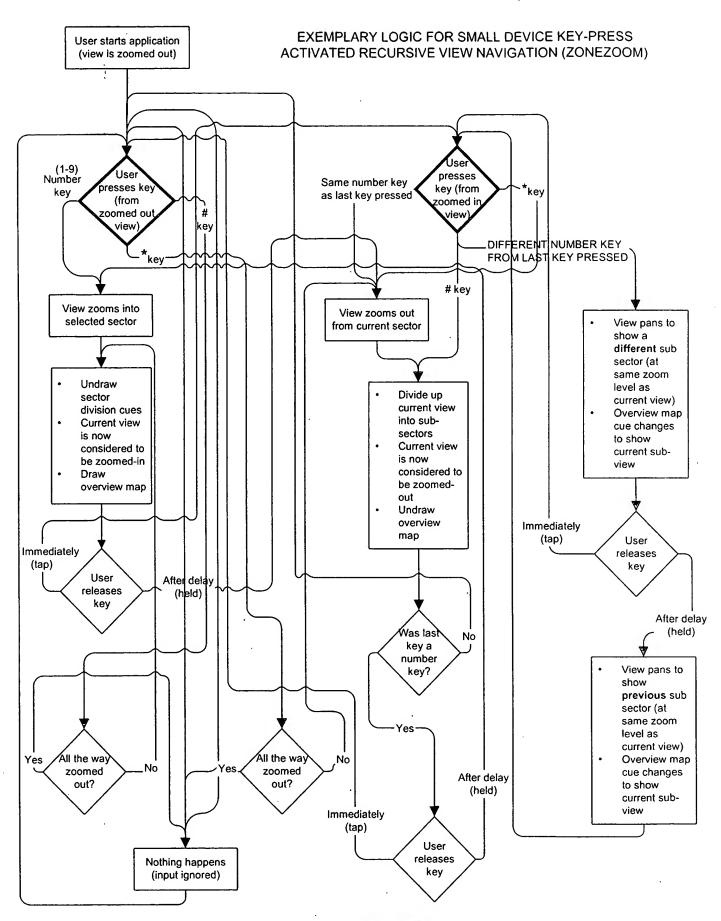


FIG. 37

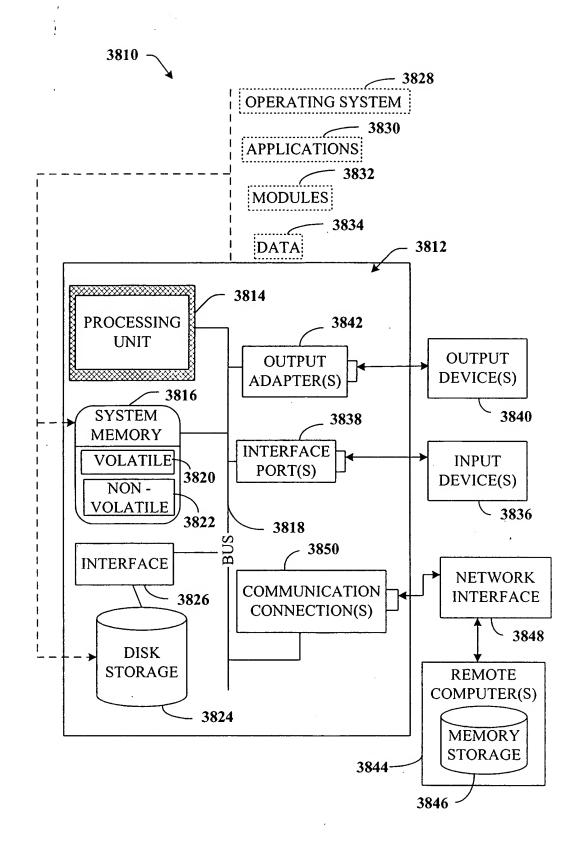


FIG. 38